

**PULP FORMATION FROM LIGNOCELLULOSE MATERIAL**

**Patent number:** JP11100783  
**Publication date:** 1999-04-13  
**Inventor:** YANO KENICHIRO; HIEDA KAORU  
**Applicant:** OJI PAPER CO LTD  
**Classification:**  
- **international:** D21C3/00  
- **european:**  
**Application number:** JP19970277927 19970926  
**Priority number(s):**

**Abstract of JP11100783**

**PROBLEM TO BE SOLVED:** To constantly obtain pulp in high yield by stabilizing the reducible terminal groups of hemicellulose to efficiently solubilize lignin in the production of pulp through the polysulfide process.

**SOLUTION:** A tightly closed vessel in which chips are contained is evacuated and a PS digestion liquid containing a proper amount of a digestion aid is charged into the evacuated vessel thereby penetrating the PS digestion liquid into chips without resistance of air. Then, the vessel is held under the conditions of 80-140 deg.C for at least 10 minutes to stabilize hemicellulose in the first step. In the second step, a pressure of  $\geq 1,200$  kpa is applied to improve the yield of hemicellulose and cellulose, lower the molecular weight of lignin and elute low-molecular-weight lignin by the action of 9, 10-anthraquinone that is a pulp- digesting aide and a catalyst for improving the pulp yield, even after the pulp digestion temp. reaches 140 deg.C and the PS digestion liquid becomes undetectable.

---

Data supplied from the esp@cenet database - Patent Abstracts of Japan

**Family list**

**2 family member for:**

**JP11100783**

Derived from 1 application.

[Back to JP11100783](#)

**1 PULP FORMATION FROM LIGNOCELLULOSE MATERIAL**

Publication info: **JP3277861B2 B2** - 2002-04-22

**JP11100783 A** - 1999-04-13

---

Data supplied from the esp@cenet database - Patent Abstracts of Japan